AUTODOC CLUB

How to change front ball joint on **VW Lupo 6X1** – replacement guide

VIDEO TUTORIAL

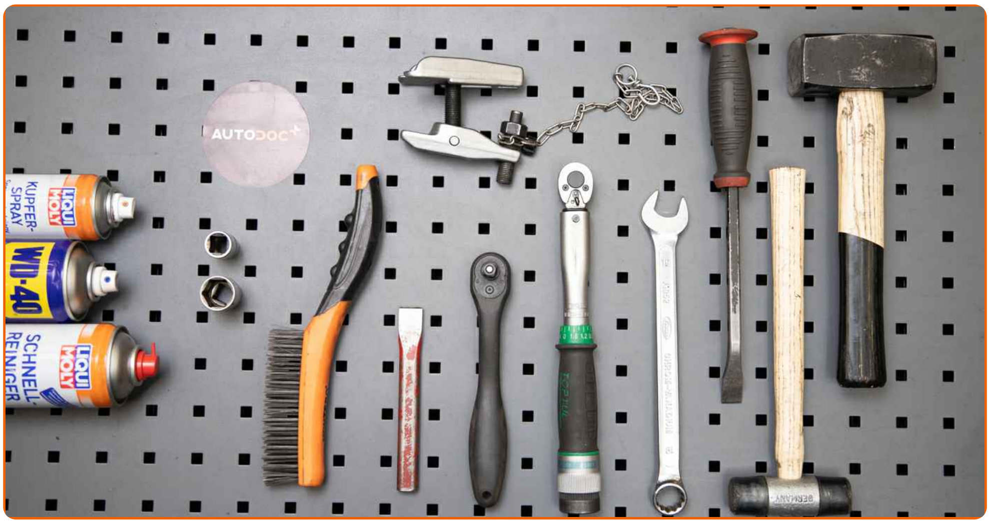


Important!

This replacement procedure can be used for:
VW Polo Hatchback (6N1) 1.3, VW Polo Hatchback (6N1) 1.6, VW Polo Hatchback (6N1) 1.0, VW Polo Hatchback (6N1) 1.9 D, VW Polo Hatchback (6N1) 1.4, VW Polo Hatchback (6N1) 1.4 16V, VW Polo Hatchback (6N1) 1.7 SDI, VW Lupo (6X1, 6E1) 1.0, VW Lupo (6X1, 6E1) 1.4 16V, VW Lupo (6X1, 6E1) 1.7 SDI, VW Polo Hatchback (6N1) 1.6 16V GTI, VW Lupo (6X1, 6E1) 1.2 TDI 3L, VW POLO Box (86CF) 1.0, VW POLO Box (86CF) 1.3, VW POLO Box (86CF) 1.4 D, (+ 13)

The steps may slightly vary depending on the car design.

REPLACEMENT: BALL JOINT – VW LUPO 6X1. TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #17
- Drive socket # 13
- Drive socket # 19
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Ball joint puller
- Crow bar
- Hammer
- Wheel chock

BUY TOOLS

Replacement: ball joint – VW Lupo 6X1. AUTODOC experts recommend:

- The replacement procedure is identical for the left and right ball joints.
- All work should be done with the engine stopped.

REPLACEMENT: BALL JOINT – VW LUPO 6X1. TAKE THE FOLLOWING STEPS:

1 Secure the wheels with chocks.



2 Loosen the wheel mounting bolts. Use wheel impact socket #17.



3 Raise the front of the car and secure on supports.



4

Unscrew the wheel bolts.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts. VW Lupo 6X1

5

Remove the wheel.



6

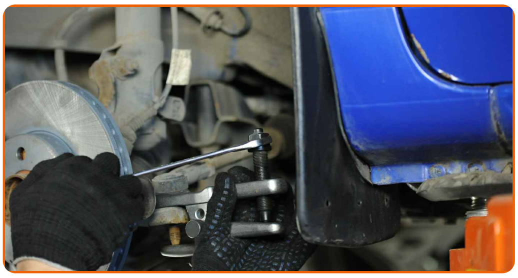
Clean the fastener connecting the tie rod end to the steering knuckle. Use a wire brush. Use WD-40 spray.

7

Unscrew the end fastening nut to the steering knuckle. Use a drive socket #19. Use a ratchet wrench.



8 Disconnect the tie rod end from the steering knuckle. Use a ball joint puller.



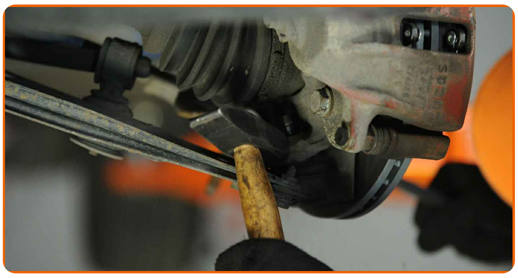
9 Clean all joints of the arm. Use a wire brush. Use WD-40 spray.



10 Unscrew the ball joint fastening to the steering knuckle. Use a combination spanner #17. Use a ratchet wrench.



11 Disconnect the ball joint from the steering knuckle. Use a crowbar. Use a hammer.



12 Unscrew the fastener connecting the ball joint to the suspension control arm. Use a drive socket #13. Use a ratchet wrench.

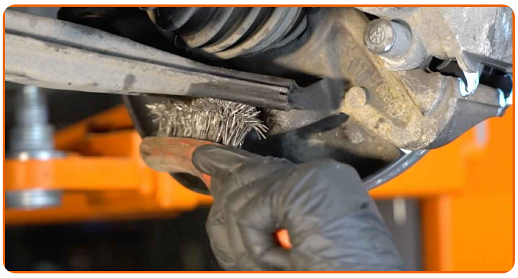


13 Disconnect the spherical joint from the arm.

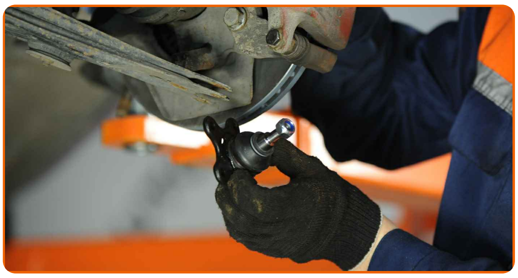
14 Remove the ball joint.



15 Clean the ball joint mounting seat. Use a wire brush. Use WD-40 spray.



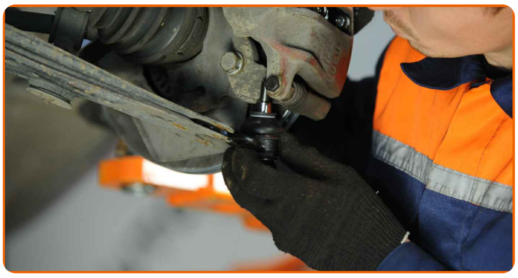
16 Install a new ball joint.



Replacement: ball joint – VW Lupo 6X1. AUTODOC recommends:

- Do not damage the ball joint cover.

17 Attach the ball joint to the control arm.



18 Tighten the ball joint fastener. Use a drive socket #13. Use a torque wrench. Tighten it to 20 Nm torque.+90°



AUTODOC recommends:

- Important! Be sure to use new fasteners.

19 Connect the ball joint to the steering knuckle.



20 Tighten the ball joint fastener. Use a combination spanner #17. Use a torque wrench. Tighten it to 35 nm torque.



21 Connect the tie rod end to the steering knuckle.

22 Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #19. Use a torque wrench. Tighten it to 35 nm torque.



23 Treat the fastener connecting the tie rod end to the steering knuckle. Treat the fasteners of the ball joint. Use copper grease.



24 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



25 Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

- Replacement: ball joint – VW Lupo 6X1. After applying the spray, wait a few minutes.

26 Install the wheel.



Replacement: ball joint – VW Lupo 6X1. Professionals recommend:

- To avoid injury, hold up the wheel when screwing in the fastening bolts.

27 Screw in the wheel bolts. Use wheel impact socket #17.



28 Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 110 Nm torque.



29 Remove the jacks and chocks.

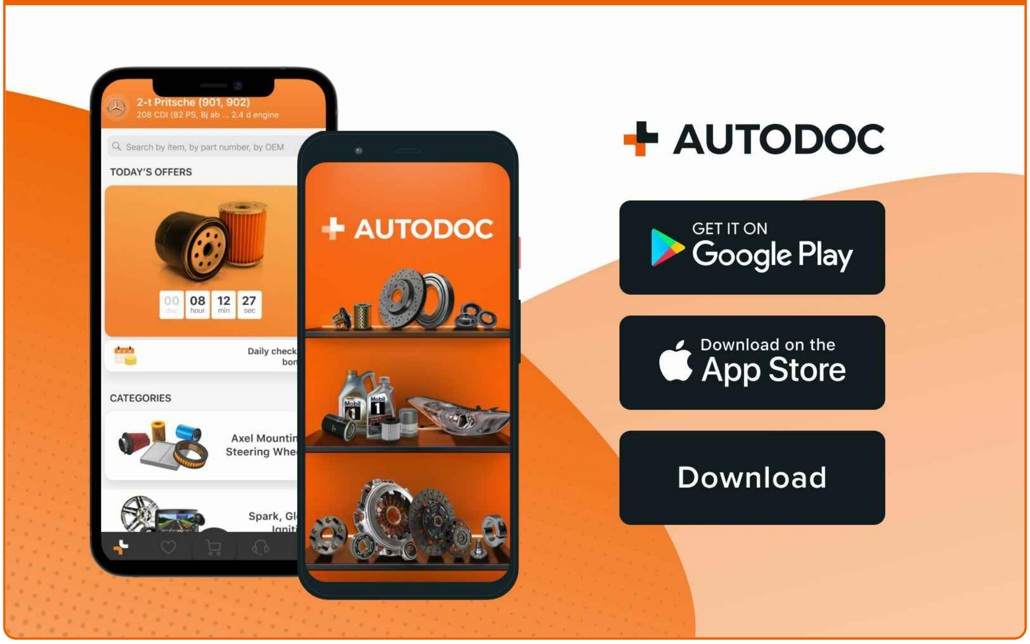


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